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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,712	08/07/2003	Hiraku Murayama	1011350-000318	1927
21839 7590 10/31/2008 BUCHANAN, INGERSOLL & ROONEY PC			EXAMINER	
POST OFFICE	BOX 1404	FOREMAN, JONATHAN M		
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
			3736	
			NOTIFICATION DATE	DELIVERY MODE
			10/31/2008	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

	Application No.	Applicant(s)
	10/635,712	MURAYAMA ET AL.
Office Action Summary	Examiner	Art Unit
	JONATHAN ML FOREMAN	3736
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 10 Ju     This action is <b>FINAL</b> . 2b)☑ This     Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1.3.5-8.10-15.17 and 19-24 is/are penda) Of the above claim(s) 21-24 is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1.3.7.8.10.11.14.15 and 17 is/are rejee 7) ☐ Claim(s) 5.6.12 and 13 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers  9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ access	rn from consideration.  cted.  election requirement.  r.  epted or b) □ objected to by the B	
Applicant may not request that any objection to the one of the correction of the cor		
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119		
<ul> <li>12) Acknowledgment is made of a claim for foreign</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the prior application from the International Bureau</li> <li>* See the attached detailed Office action for a list of the certified copies</li> </ul>	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/10/08.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate

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### **DETAILED ACTION**

1. The following Office Action contains rejections to previously allowed and/or previously objected-to-as-allowable material as indicated in Office Action mailed 4/10/08. Accordingly, the following action has been made Non-Final.

#### Information Disclosure Statement

2. The information disclosure statement filed 7/10/08 complies with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609. It has been placed in the application file, and the information referred to therein has been considered by the examiner as to the merits.

## Election/Restrictions

3. It is noted that claims 21 - 24 were nonelected in the reply filed on 12/15/06 and cancelled in the Examiner's Amendment mailed 7/12/07.

# Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 3, 7, 8, 10, 11 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,865,768 to Orr in view of JP 11-0000737 to Toshiba Corp.

In regard to claims 1, 3, 7, 8, 10, 11 and 14, Orr discloses a guide wire (Figure 1) including a first wire (30) disposed on the distal side of the guide wire; a second wire (25) disposed on the proximal side from the first wire, the second wire having rigidity higher than that of the first wire (Col. 2, lines 44 – 64); wherein the first wire and the second wire are joined to each other by welding

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(Col. 2, line 54); a cover layer is disposed over the welded portion (Col. 3, lines 8 – 9); the first wire and the second wire are not helical coils; material forming at least one of the proximal end of the first wire and the distal end of the second wire constitutes at least a part of the weld; the second wire has a first portion provided in the vicinity of the distal end of the second wire and a second portion provided on the proximal side from the first portion; and the first portion has rigidity lower than that of the second portion as a result of a taper (Figure 1). Orr discloses a spiral coil (15) covering at least a distal end portion of the first wire. The Examiner considers the location of the weld to be on a thinned portion of the guide wire. Although Orr discloses a welded portion, Orr fails to disclose the welded portion formed by the welding having a projection projecting in the outer peripheral direction; the projection extending on both axial sides of the welded portion. However, Toshiba Corp. teach a welded portion between two wires having a projection projecting in the outer peripheral direction; the projection extending on both axial sides of the welded portion. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the welded portion disclosed by Orr to include a projection as disclosed by Toshiba Corp. to improve the strength of the weld [0041].

6. Claims 15, 17, 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,980,471 to Jafari in view of JP 11-0000737 to Toshiba Corp.

In regard to claims 15, 17, 19 and 20, Jafari discloses a guide wire (Figure 1) having a first wire (12) being formed of a pseudo-elastic alloy (Col. 6, lines 62 - 65) and disposed on the distal side of the guide wire; a second wire (11) being formed of a Co-based alloy and disposed on the proximal side from the first wire (Col. 8, lines 38 - 46); a spiral coil (22) covering at least a distal end portion of the first wire; wherein the first wire and the second wire are joined to each other at a portion (Figure 3) and a cover layer (Col. 6, lines 36 - 42) is disposed over the portion. The first wire

comprises a reduced outer dimension portion possessing an outer dimension smaller than the outer dimension of the joined portion and smaller than the outer dimension of a distally located portion of the first wire, the reduced outer dimension portion of the first wire being positioned between the joined portion and the distally located portion of the first wire (Figure 3); the second wire comprises a reduced outer dimension portion possessing an outer dimension smaller than the outer dimension of the joined portion and smaller than the outer dimension of a proximally located portion of the second wire, the reduced outer dimension portion of the second wire being positioned between the joined portion and the proximally located portion of the second wire (Figure 3). However, Jafari fails to disclose the joined portion including a welded portion forming a projection that projects in an outer peripheral direction; the material forming at least one of the proximal end of the first wire and the distal end of the second wire constituting at least a part of the projection. However, Toshiba Corp. teach joining two wires with a welded portion having a projection projecting in the outer peripheral direction; the projection extending on both axial sides of the welded portion. The claims would have been obvious because the substitution of one known element for another would have yielded predictable results to one of ordinary skill in the art at the time of the invention.

Because both Jafari and Toshiba Corp. teach mechanisms for joining two wires together it would have been obvious to one skilled in the art at the time of the invention to substitute one mode of connection for the other to achieve the predictable results of firmly joining together the two wires.

### Allowable Subject Matter

7. Claims 5, 6, 12 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Response to Arguments

8. Applicant's arguments with respect to the claims have been considered but are moot in view

of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to JONATHAN ML FOREMAN whose telephone number is (571)272-4724.

The examiner can normally be reached on Monday - Friday 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Max Hindenburg can be reached on (571)272-4726. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. M. F./

Examiner, Art Unit 3736

/Max Hindenburg/

Supervisory Patent Examiner, Art Unit 3736